

Title (en)
MEASURING SYSTEM

Title (de)
MESSSYSTEM

Title (fr)
SYSTÈME DE MESURE

Publication
EP 3016409 A4 20170510 (EN)

Application
EP 14816831 A 20140624

Priority
• JP 2013135149 A 20130627
• JP 2014003390 W 20140624

Abstract (en)
[origin: EP3016409A1] This measurement system quantitatively presents the effect of wearing an acoustic device that transmits sound to a user by contacting a vibrating body to a human auricle. In a measurement system (10) including an ear model (50), which is provided with an artificial auricle (51) and an artificial external ear canal (53), and an air-conducted sound gauge (60) that measures air-conducted sound in the artificial external ear canal, while an acoustic device (1) is contacted to the ear model (50) of the measurement system (10), the acoustic device (1) including a vibrating body (10a) and transmitting sound to a user by contacting the vibrating body (10a) to a human auricle, the measurement system (10) measures, with the air-conducted sound gauge (60), air-conducted sound generated by the acoustic device (1) and presents the result of measurement together with a characteristic corresponding to when the user wears the acoustic device (1).

IPC 8 full level
H04R 29/00 (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP US)
A61B 5/121 (2013.01 - US); **H04R 25/30** (2013.01 - EP US); **H04R 25/407** (2013.01 - EP US); **H04R 2460/13** (2013.01 - EP US)

Citation (search report)
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• [Y] JP 2004179965 A 20040624 - CHUGOKU HOCHOKI CT KK, et al
• [A] JP S58198338 A 19831118 - HITACHI LTD
• [A] US 2005201574 A1 20050915 - LENHARDT MARTIN L [US]
• [Y] SCHROETER J ET AL: "ON BASIC RESEARCH TOWARDS AN IMPROVED ARTIFICIAL HEAD FOR THE MEASUREMENT OF HEATING PROTECTORS//GRUNDLEGENDE UNTERSUCHUNGEN FUER EINE VERBESSERTE KUNSTKOPFMETHODE ZUR MESSUNG DER SCHALLDAEMMUNG VON GEHOERSCHUTZERN//RECHERCHES FONDAMENTALES EN VUE D'AME", ACUSTICA, S. HIRZEL VERLAG, STUTTGART, DE, vol. 50, no. 4, 1 April 1982 (1982-04-01), pages 250 - 260, XP008019818, ISSN: 0001-7884
• [A] LI RUIJING ET AL: "Design and realization of inspection system for bone-conduction hearing aid", COMPLEX MEDICAL ENGINEERING (CME), 2013 ICME INTERNATIONAL CONFERENCE ON, IEEE, 25 May 2013 (2013-05-25), pages 551 - 555, XP032432430, ISBN: 978-1-4673-2970-5, DOI: 10.1109/ICCME.2013.6548311
• See references of WO 2014208084A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3016409 A1 20160504; EP 3016409 A4 20170510; EP 3016409 B1 20200603; JP 2015012378 A 20150119; JP 6234082 B2 20171122; US 10092223 B2 20181009; US 2016143563 A1 20160526; WO 2014208084 A1 20141231

DOCDB simple family (application)
EP 14816831 A 20140624; JP 2013135149 A 20130627; JP 2014003390 W 20140624; US 201414899796 A 20140624